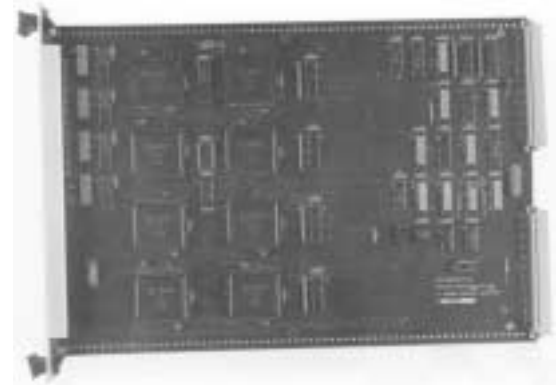


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# 16-Channel Frequency Source Model VX461C

The VX461C is a 16-Channel Frequency Source that can generate 16 independent square waveforms at frequencies up to 10 MHz in a C-size VXIbus module. Each channel provides phase continuous switching between consecutive programmed frequency values, allowing on-the-fly frequency changes with no transients or discontinuities during range and period changes. All source outputs are available through a 96-pin DIN type connector on the front panel.



## SPECIFICATIONS

### Phase Continuous Frequency Switching

Amplitude and phase of "old" and "new" programmed frequency values are equal.

### Source Period

Range: 100 ns to 65.5 s  
Accuracy:  $\pm 15$  ns

### Source Frequency Range

15.26 MHz to 10 MHz

### Programing Resolution Frequency Range

Frequency Range	Resolution
305.2 Hz to 10 MHz	50 ns
152.6 Hz to 5 MHz	100 ns
15.26 Hz to 500 kHz	1 $\mu$ s
1.526 Hz to 50 kHz	10 $\mu$ s
152.6 MHz to 5 kHz	100 $\mu$ s
15.26 MHz to 500 Hz	1 ms

### Source Output Characteristics

Amplitude: Differential  
CMOS  
Transition Time: 5 ns typical

Output Drivers have the following electrical characteristics:  
Driver Type: 74HCT245  
 $V_{OH}$ : 4.9 V - (150 x  $I_{LOAD}$ ) V  
 $V_{OL}$ : 0.1 V + (150 x  $I_{LOAD}$ ) V  
 $I_{OH}$ : -30 mA max.  
 $I_{OL}$ : 30 mA max.

Note: All outputs have 150  $\Omega$  series current limiting resistors

### Temperature

Operating: 0° C to +50° C  
Storage: -40° C to 65° C

### Power

+5 V @ 1.5 A

### VXIbus Compliance

Complies with ANSI/IEEE Std. 1014-1987 and VXIbus Rev. 1.4  
A16:D16 DTB Slave  
Register Based  
No SYSFAIL  
No Interrupts  
IACKIN tied to IACKOUT  
BRX tied to BGX  
Form Factor: Size C  
Built in test via feedback registers

### Applications

Square wave generators  
Automated test  
Hardware-in-the-loop simulation  
Power/Control system

### Ordering Information

Part Number: 11026700-0001